

Leonardo Pilot Project
Eurenergy

Leonardo Pilot Project
EURENERGY
DISSEMINATION ACTIVITIES

Partner: IES ESCOLA INDUSTRIAL DE SABADELL

1. Date : 06/09/2006-20/09/2006 **Place** NEWCASTLE (U.K)

Context : Students research work in which they compared the use and application of the renewable energies in Sabadell and those in Newcastle.

Types of activities : Production and analysis of street surveys, specific interviews to technicians. Comparison of graphics about different kinds of R.E. Visits to some research and development centres.

Target: Fourth level compulsory secondary education students of IES ESCOLA INDUSTRIAL

Disseminated Products: Result of all activities and the achieved conclusions. Production of a DVD with an introduction of the product, different activities and research results. This DVD includes references to Eurenergy

2. Date : 18/10/2006 **Place** IES ESCOLA INDUSTRIAL - SABADELL

Context : A specific presentation of the e-learning platform to groups of teachers

Types of activities :

To make know the e-learning platform to groups of teachers. It consisted in 5-hour workshop with the collaboration of Simone Montonatti about the e-learning platform addressed to teachers from:

- IES Termes at Sabadell
- IES Can Jofresa at Terrassa
- IES Egara at Terrassa
- IES Agustí Serra at Sabadell
- IES Terrasa at Terrassa
- Education Department official of Sabadell City Council

Target: Teachers of the above mentioned schools

Disseminated Products: The e-learning platform. As a result of this activity it was decided to prepare some test activities of the e-learning platform in collaboration with two of this schools (to be done by may).

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3. Date :07/11/2006 **Place** Escola Pia at Sabadell

Context : a specific workshop addressed to 3rd and 6th level Primary School

Types of activities : It consisted in 8 2-hour-workshops to test the materials and presentations

Target: Responsible teachers and children

Disseminated Products:

- 2m² PV panel
- 1m² solar thermal panel
- Two different PV propelled model cars
- PV propelled robot
- PV propelled fun on a cap
- Solar kitchen
- Model of a bioclimatic building integrating solar systems

4. Date :17/11/2006 **Place** CEIP Enric Casases at Sabadell

Context : : a specific workshop addressed to 3rd and 6th level Primary School

Types of activities : It consisted in 8 2-hour-workshops to test the materials and presentations

Target: Testing the materials and presentations

Disseminated Products:

- 2m² PV panel
- 1m² solar thermal panel
- Two different PV propelled model cars
- PV propelled robot
- PV propelled fun on a cap
- Solar kitchen
- Model of a bioclimatic building integrating solar systems

5. Date :14/12/2006 **Place** CEIP Enric Casases at Sabadell

Context : project about Renewable energy in Newcastle related to LdV Eurenergy

Types of activities : It consisted in 4 2-hour-workshops to test the materials and presentations

Target: Testing the materials and presentations

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Disseminated Products:

- 2m² PV panel
- 1m² solar thermal panel
- Two different PV propelled model cars
- PV propelled robot
- PV propelled fun on a cap
- Solar kitchen
- Model of a bioclimatic building integrating solar systems

6. Date :21/12/2006 **Place** IES ESCOLA INDUSTRIAL DE SABADELL

Context : A school meeting addressed to Staff and teachers of IES ESCOLA INDUSTRIAL

Types of activities : Presentation of the Eurenergy project and products

Target: Staff and teachers of IES ESCOLA INDUSTRIAL

Disseminated Products: Eurenergy project and products

7. Date :14/03/2007 **Place** IES ESCOLA INDUSTRIAL DE SABADELL

Context : A school meeting addressed to Science and Technology Students of IES ESCOLA INDUSTRIAL

Types of activities : Presentation of the Eurenergy project and products

Target: Science and Technology Students of IES ESCOLA INDUSTRIAL

Disseminated Products: Eurenergy project and products

8. Date : 25/04/07 **Place** IES ESCOLA INDUSTRIAL DE SABADELL

Context : : a specific workshop addressed to secondary compulsory education students

Types of activities : It consisted in 4 2-hour-workshops to test the materials and presentations

Target: Testing the materials and presentations

Disseminated Products:

- 2m² PV panel
- 1m² solar thermal panel
- Two different PV propelled model cars
- PV propelled robot
- PV propelled fun on a cap
- Solar kitchen
- Model of a bioclimatic building integrating solar systems

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Complementary materials in Catalan

As it was announced in former reports , considering that final products will be only in Italian and English versions, we have been preparing a **set of web pages giving basic introductions to link from them to the project products**. In addition, as some complementary needs of possible Catalan users have been detected, some **complementary materials**, not included in the project itself have been prepared: **database of European PV installations, data base of singular solutions for integration of PV in buildings, Catalan regulations and financial support for PV, practical guide about PV, practical guide of installation of solar thermal systems (specific for Catalonia)**. These materials are already available in <http://www.escolaindustrial.org> > intranet > Proj Internacionals > Leonardo Eurenergy <http://www.escolaindustrial.org> > intranet > Proj Internacionals > Leonardo Eurenergy

Pilot systems to be referred in dissemination activities in the city.

a) *On-line* monitoring of our PV installation (school 2kWp plant). Escola Industrial has got a PV system six years ago. To make accessible its performance as an example of working system, an on-line monitoring system has been implemented.

It can be seen on <http://www.escolaindustrial.org>

b) Related to the former point, a pilot PV system has been tested in a central district typical building with the aim of act as a reference for dissemination activities. The results and conclusions of this demonstrative project can be seen in <http://www.escolaindustrial.org> > intranet > Proj Internacionals > Leonardo Eurenergy > downloads

c) Promotion and guidance of a real PV system in an isolated house in a residential district, the first in Sabadell, to test administrative and technical procedures. An installation guide has been prepared from this experience for our web page.

<http://www.escolaindustrial.org> > intranet > Proj Internacionals > Leonardo Eurenergy > downloads

d) Pilot solar thermal system using an alternative layout to avoid using a huge heat exchanger, in order to ease the deployment of solar thermal systems in houses with lack of space. An installation guide will be prepared for our web (not available at the moment)

<http://www.escolaindustrial.org> > intranet > Proj Internacionals > Leonardo Eurenergy > downloads

Future dissemination activities

Dissemination of all products in schools, institutions, associations, enterprises devoted to R.E and Secondary School Research R.E. projects.

Realisation of E-learning portal courses between students and establishments from different countries.

1. Other Schools Involvement

Date : To be determined **Place** Different schools in the area

Context : Other secondary schools in the area contacted us with the aim of being involved in the knowledge and possible application of R.E activities. The contacts are going on in the hope of a final successful deal

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Types of activities : workshops to test materials and Eurenergy presentation products. A group of students is involved in school presentations. On the other hand, some other students have developed models and complementary information related to the topic in their "*research project*" at the end of their non-compulsory secondary education.

Target: To disseminate the project among the academic staff and pupils

Disseminated Products: To be determined

2. Dissemination among householders.

Date : To be determined **Place** Castellarnau (Sabadell)

Context : pilot project on dissemination of solar energy among householders in the Castellarnau neighbourhood of Sabadell, in collaboration with the City Council.

Types of activities : The materials (leaflet, webpage) and results about this activity will be displayed in <http://www.escolaindustrial.org> > intranet > Proj Internacionals > Leonardo Eurenergy > downloads
Of course, Eurenergy is a reference source in these leaflets. (The final design of this leaflet is not available yet)

An adjoining presentation letter addressed to its inhabitants by the City Council.

Target: Development and use of photovoltaic energy in the neighbourhood

Disseminated Products: To be determined

Adjoining letter:

Benvolguts,

Ens adrecem als veïns de Castellarnau per comunicar-los que entre els dies ----- vindran dos alumnes de l'Escola Industrial de Sabadell, que en col·laboració amb l'Ajuntament de Sabadell i concretament des de l'Oficina de l'Agenda 21 del Departament de Sostenibilitat, han iniciat un projecte pilot de divulgació de l'energia solar fotovoltaica.

Demanaïem que els atenguin i que llegeixin amb atenció la documentació informativa que els lliuraran, que sense dubte té un doble interès. Vostès rebran una informació que els pot interessar, i a ells els servirà per presentar el treball de recerca que estan realitzant.

Moltes gràcies per la seva col·laboració. Per més informació o qualsevol altre dubte, poden connectar a l'adreça electrònica mpefotovoltaica@gmail.com i a agenda21@ajsabadell.cat.

Dissemination Activities – Escola Industrial

1.-Complementary materials in Catalan

Considering that final products will be only in Italian and English versions, we are preparing a **set of web pages giving basic introductions to link from them to the project products**. In addition some **complementary materials**, not included in the project are being prepared: **database of European PV installations, data base of singular solutions for integration of PV in buildings, Catalan regulations and financial support for PV, practical guide about PV (specific for catalan utilities behaviour)**.

Now can be seen on <http://leonardo.deejay.gotdns.com>.

Within few weeks it can be link to <http://ies-escindustrial.xtec.net>

2.-*on-line* monitoring of our PV installation (school 2kWp plant).

It can be seen on www.escolaindustrial.org

w this materials can be seen on on-line monitoring of our installation (school 2kWp plant)

As we are organizing some **exhibitions in other** schools we have prepared eight pannels **about PV**

3.-Visiting fairs and local markets

All year long fairs and markets on renewable energies are held in a number of towns and villages in Catalonia. We are visiting these events to contact the organizers and check the state-of-the-art on these activities on view of future active participation in the exhibitions. In all these events we participated in a round-table discussion about dissemination of renewable energies.

Cassa de la Selva (province of Girona), 22,23 oct/2005

Torredembarra (province of Tarragona), 12,13 nov/2005

Sabadell (province of Barcelona), 23, 24, 25 nov/2005

4.- Educational network of Sabadell.

Presentation of our work in the Agenda 21 meeting of schools, hold in Sabadell on 13 may/2005

5.-Contacts.

We have contacted the educational web net of Catalonia (xtec.net) to up-load our materials in there. A more evolved version of our products will be welcome. The principal of Escola Industrial is getting in contact with other principals and managers of civic institutions in order to hold exhibitions in their premises.

In addition, we have sent profile letters to any known communication media in Catalonia with the aim of preparing future disseminations of our activities.